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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/7,56,269	01/09/2001	Niichi Itoh	49657-935	6281
7590 04/20/2004 McDERMOTT, WILL & EMERY			EXAMINER NGO, CHUONG D	
	2124	6		
	DATE MAILED: 04/20/2004	DATE MAILED: 04/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	09/756,269	ITOH, NIICHI			
Office Action Summary	Examiner	Art Unit			
7 444 100 0475 444	Chuong D Ngo	2124			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the (correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 1) Responsive to communication(s) filed on 27 Fe 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 6-16 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of the original transfer of the correction of the correction of the original transfer of the correction of the corre	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

1. Applicant's election without traverse of Species I in Paper No. 5 is acknowledged.

Claims 6-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species, there being no allowable generic or linking claim.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1 is rejected under 35 U.S.C. 102(a) as being clearly anticipated by applicant's admission of prior art disclosed in figure 18 of the present application.

The admitted prior art in figure 18 discloses a multiplication apparatus having a Booth encoder (1) Booth selection circuitry (3), intermediate product generating circuitry (4-6) being divided into first array (4a-4d,5a,5b,6a) and second array (4e-4g,5c,5d,6b), and a final addition circuit (7) as claimed.

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5. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admission of prior art disclosed in figure 18 of the present application as applied to claim 1 above, and further in view of in view of Owaki (JP 63055627 A).

As per claims 2-4, the admitted prior art in figure 18 also discloses the divided arrays arranged in a direction orthogonal to the Booth select control signals, and performing the addition in a direction toward the final addition circuit, but does not show the final addition circuit in between the divided arrays. However, Owaki discloses in figure 1, the arrangement of the final addition circuit in between the divided array for minimizing the wiring delay (see the Constitution, lines 11-12). Thus, it would have been obvious to a person of ordinary skill in the art to arrange of the final addition circuit of the admitted prior art in between the divided array as taught by Owaki in order to minimize the wiring delay, and thus to increase the speed of processing.

As per claim 5, the admitted prior art in figure 18 also does not show the multiplicand generating circuit in between the divided arrays. However, since the multiplicand generating circuit provides a common multiplicand to both the divided arrays, it would have been obvious to a person of ordinary skill in the art to apply the teaching of Owaki as set forth above to arrange the multiplicand generating circuit in between the divided arrays so that the wiring delay can be minimized, and thus further improve the speed of processing.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner

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04/15/2004